
Free Fall and Projectile Motion

Base your answers to the following questions on the videotape you viewed in lab:

1. What is responsible for the difference in the rate of falling of the first two basketballs?
2. How do you eliminate the effect of air resistance on the sheet of paper?
3. What is Newton's Law of Motion?
4. What does the small letter g represent?
5. How strong is the moon's gravitational field compared to that of the earth?
6. What is the relationship between gravitational mass and inertial mass

7. In the experiment with two half dollars, which one hit the ground first?

8. In the experiment with two balls, which hit the ground first?

9. Which quantities in $F = ma$ are vectors?

10. Which quantity in $F = ma$ is a scalar?

11. Are right angle components dependent or independent of each other?

12. Where should you aim at the monkey to insure a hit?